

FIGURE 1A

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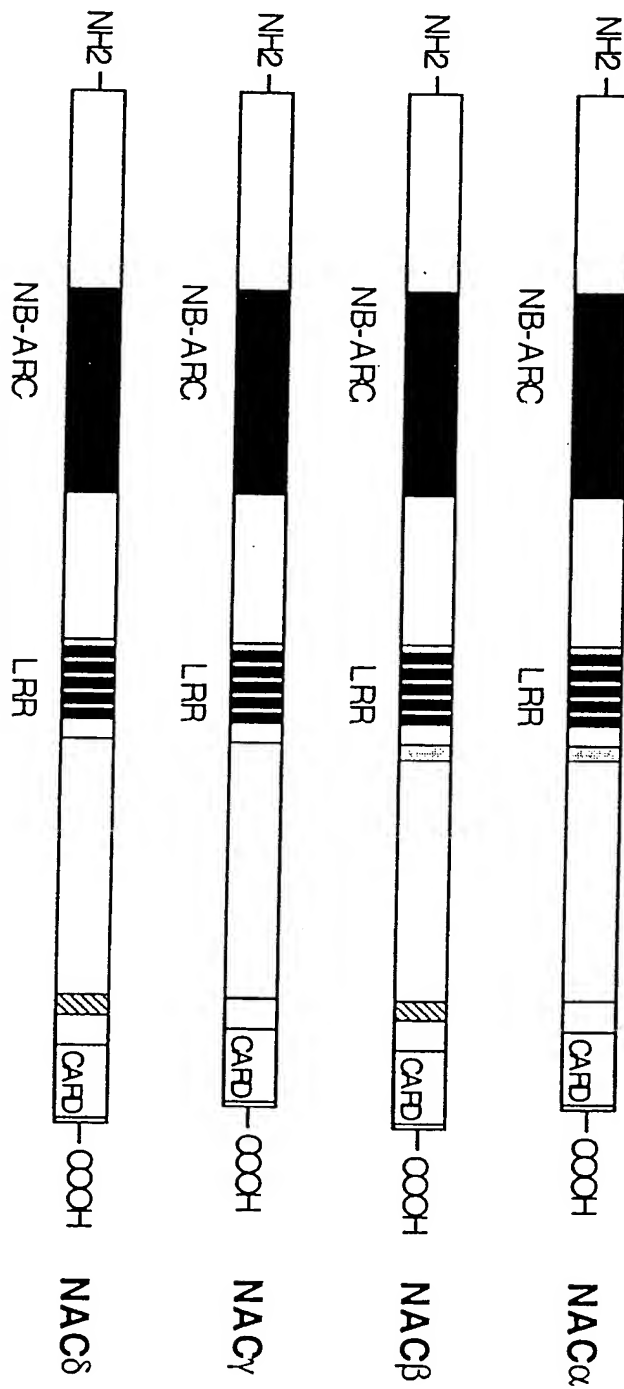


FIGURE 1B

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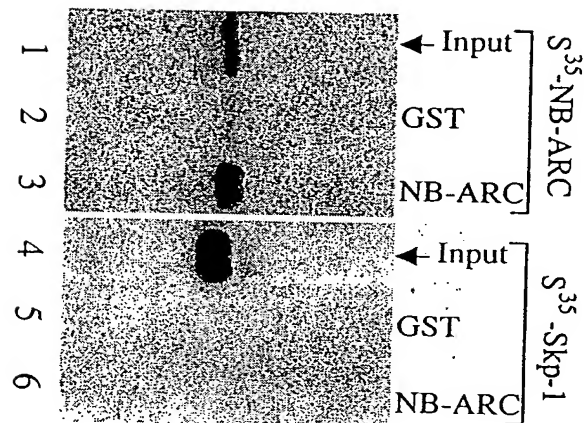
AUG GCT GGC GGA GGC TGG GGC GGC CTG GGC TGT TAC TIG GAG TTC CTG AAG AAG GAG GAG 120
 M A G G A W G R L A C Y L E F L K K E E L K E F Q L L L A N K A H S R S S S G E 40
 ACA GGC GCT GAG GGA GAG AAG AGT GGC AUG GAG GTC GGC TGG TAC CTG GTC GCT GAG 240
 T P A Q P E K T S G M E V A S Y L V A Q Y G E Q R A W D L A L H T W E Q M G L R 80
 TCA CTG TGC GGC GGA GGC GAG GGC GGA GGC GTC TCT GCT TCA TCT GTC TAC ACC GGA 360
 S L C A Q A G C Q E G A G H S P S F P Y S P S E P H L G S P S Q P T S T A V L M P W 120
 ATC GAT GAG TIG GGC GGC GGC TGC ACC GAG GGC TGA GAG AAG GAT TIG GAG GAG GTC 480
 I H E L P A G C T Q G S E R R V L R Q L P D T S G R R W R E I S A S L L Y Q A L 160
 GGA ACC TGC GGA GAT GAT GAG TCT GGA ACC GAG GAG TGA GGC AAG GGC GGC ACA TGC ACA 600
 P S S P D H E S P S Q E S P N A P T S T A V L G S W G S P P Q P S L A P R E Q E 200
 GCT GCT GGC ACC GGA TGG GCT CTG GAT GAA AGG TGA GGA ATT TAC TAC ACA GAA ATT ACA 720
 A P G T Q W P L D E T S G I Y Y T E I R E R E R E K S E K G R P P W A A V V G T 240
 GGC GGA GGC GGC ACC ACC CTA GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 840
 P P Q A H T S L Q P H H P W E P S V R E S L C S T W P W K N E D F N Q K F T Q * 280
 CTG CTA CTT CTA GAA CTA CTA CTA CTA CTA CTA CTA CTA CTA CTA CTA CTA CTA CTA CTA 960
 L L L L Q R A P C T H P R S Q D P L V K R S W P D Y V E E N R G H L I E I R D L F G P 320
 GGC CTG GAT ACC GGA GGA GCT GGC ATA GTC ATA CTG GGC GCT GCT GGA ATT GGC AAG 1080
 G L D T Q E P R I V I L O G A A G I G K S T L A R Q V K E A W G R G Q L Y G D R 360
 P-loop (Walker A)
 TTC GAG GAT GTC TTC TAC TTC ACC TGC AGA GAG CTG GGC GGC TGC AAG GTC GTC GAT CTC 1200
 F Q H V F Y F S C R E L A Q S K V S L A E L I G K G T C G T A T P A P I R Q I L S 400
 AAG GGA GGC GGC GGC TTC ATC CTC GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT 1320
 R P E R L L F I L D G V D E P G W V L Q E P S S E L C L H W S Q P Q P A D A L L 440
 Walker B
 GGC AGT TIG CTG GGC AAA ACT ATA CTT GGC GGC GGC TGC TGC TGC TGC TGC TGC TGC 1440
 G S L L G K T I L P E A S F L I T A R T T A L Q N L I P S L E Q A R W V E V L G 480
 TTC TGC TGC TGC ACC AAG AAG GAT TGT TAC ACA TAT TAC ACA GAT GAA AGC GAA GGA 1560
 F S E S S R K E Y F Y R Y F T D E R Q A I R A F R L V K S N K E L W A L C L V P 520
 TGG GTC TGC TGC CTG GGC TGC ACT TGC CTG AAT GGC GGC AAG GGC AAG GAA CTA CTA 1680
 W V S W L A C T C L M Q K R K E K L T L T S K T T T T L C L H Y L A Q A L Q 560
 GCT GGC GGA TIG GGA GGC GGC CTG AAG GGC CTG TGC TCT CTG GCT GCT GGC GGC AAT TGC 1800
 A Q P L G P Q L R D L C S L A A E G I W Q K K T L F S P D D L R K H G T L D G A I 600
 ATC TGC ACC TGC TGC AAG AAG GAT ATT CTA GAG GGC GGC AAT GGC AAT GGC AAT TGC ACC 1920
 I S T F L K M G I L Q E H P I P L S Y S F I H L C F Q E F F A A M S Y V L E D E 640
 AAG GGC GGA GAT GAT TCT AAT TGC ATA GAT TIG GAA AAG GAT TIG GAA CTA GGA TAT 2040
 K G R G K H S N C I I D L E K T L E A Y G I H G L F G A S T T R F L L G L L S D 680
 GAG GGC GAG AAG AAG GGC AAT TGT TGC TGC CTG TGC CTG GGC GGC AAT GGC AAT GGC 2160
 E G E R E M E N I F H C R L S Q G R N L M Q W V P S L Q L L L Q P H S L E S L H 720
 TGC TIG TAC GAG ACT GGC AAG AAG TGC CTG AAG GGC GGC GGC GGC GGC GGC GGC GGC 2280
 C L Y E T R N K T F L T Q V M A H F E E M G M C V E T D M E L L V C T F C I K F 760
 ACC GGC GGC GGC AAG AAG GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 2400
 S R H V K K L Q L I E G R Q H R S T W S P T M V V L F R W V P V T D A Y W Q I L 800
 TTC TGC GTC CTC AAT GGC ACC AAG AAG GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 2520
 F S V L K V T R N L K E L S G N S L S H S A V K S L C K T L R R P R C L L E 840
 ACC CTG GGC TGC GCT TGT GGC CTC AAT GGC GGC TGC AAG GGC GGC GGC GGC GGC GGC 2640
 T L R L A G C G L T A E D C K D L A E G L R A N Q T L T E L D L S F N L T D A 880
 GGA GGC AAA GGC CTT TGC GGC AAG AAG GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 2760
 G A K H L C Q R L R Q P S C K L Q R L Q L V S C G L T S D C C Q D L A S V L S A 920
 ACC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 2880
 S P S L K E L D L Q Q N N L D D V G V R L L C E G L R H P A C K L I R L G L D Q 960
 AAT CTG GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT 3000
 T T L S D E M R Q E L R A L E Q E K P Q L L I F S R R K P S V M T P T E G L D T 1000
 GGA GGC AAT GAT ACC ACA TGC TGA CTA GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 3120
 G E M S N S T S L K R Q R L G S E R A A S H V A Q A N L K L L D V S K I F P I 1040
 GCT GGC AAT GGA GGC AAT TGC GGA GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 3240
 A E I A E E S S P E V V P V E L L C V P T C T G C T C T C T C T C T C T C T C T C T C T 1080
 GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 3360
 G P T G P V A T E V V D K E K N L Y R V H F P V A G S Y R W P N T G L C F V M R 1120
 GGA GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 3480
 E A V T V E I E F C V W D Q F L G E I N P Q H S W M V A G P L L D I K A E P G A 4160
 GIG GGA GCT GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC GGC 3600
 V E A V H L P H F V A L Q G G H V D T S L F Q M A H F K E E G M L L E K P A R V 1200
 GAG GGC GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT 3720
 E L H H I V L E N P S F S P L G V L L K M I H N A L R F I P V T S V V L L Y H R 1240
 GIC GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT 3840
 V H P E E V T F H L Y L I P S D C S I R K A I D D L E M K F Q F V R I H K P P P 1280
 CTG ACC GAT CTT TAT GGC GGC TGT GAT TAC ACT GTC TCT GCT TCT TCT TCT TCT TCT TCT 3960
 L T P L Y M G C R Y T V S G S G S G M L E I L P K E L E L C Y R S P G E D Q L F 1320
 TGG GGC TGC TGC GTC GGC GGC TGC GGA TGA GGC AAG GGC GGC GGC GGC GGC GGC GGC GGC 4080
 S E F Y V G H L G S G I R L Q V K D K K G M T GAG ACT CTG GTC TGC GGC TGC GGC GGC GGC GGC 1360
 CTG AAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT 4200
 L I P P A R I A V P S P L D A P Q L L H F V D Q Y R E Q L I A R V T S V E V V L 1400
 GCA AAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT 4320
 D K L H G 1440
 AAA GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT GAT 4422
 K D G L Y Q A L K E T H P H L I M E L W E K G S K K G L L P L S S * 1473

FIGURE 1C

LexA	B42	Leu+	Leu-	LacZ
NAC-CARD	Casp-9 (CARD) Casp-8 (Pro) Apaf-1 (-WD) Bcl-XL (-TM) Bcl-2 (-TM) Bax (-TM) vRas			++ +/- ++ +/- +/- - -
Casp-9 (CARD)	NAC-CARD Apaf-1 (-WD) vRas			++ ++ -
Casp-8 (Pro)	NAC-CARD FADD vRas			++++ - -
Apaf-1 (-WD)	NAC-CARD Casp-9 (CARD) vRas			+ ++++ -
Bcl-XL (-TM)	NAC-CARD Bcl-XL (-TM) Apaf-1 (-WD) vRas			+++ +++ +++ -
Bax	NAC-CARD Bax (-TM) Bcl-2 (-TM) vRas			+/- ++++ + -
Bcl-2 (-TM)	NAC-CARD Bcl-2 (-TM) Bax (-TM) vRas			++ +++ +++ -

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FIGURE 3



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FIGURE 4